/7/02 6:12 PM Page a

DVD PLAYER

DVD/VIDEO-CD/CD

DVD-618K

AH68-00442P (Rev. 01)

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ions

TION

TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE THE COVER(OR BACK).
NO USER-SERVICEABLE PARTS ARE INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

s symbol indicates "danger- voltage" inside the product presents a risk of electric ck or personal injury.

This symbol indicates important instructions accompanying the product.

D PLAYERS USE AN INVISIBLE LASER BEAM WHICH CAN USE HAZARDOUS RADIATION EXPOSURE IF DIRECTED. SURE TO OPERATE PLAYER CORRECTLY AS INSTRUCTED.

vent electric shock, match wide blade of plug to wide slot, fully insert.
éviter les chocs électriques, introduíre la lame la plus large de la fiche dans rne correspondante de la prise et pousser jusqu au fond.
isfies FCC regulations when shielded cables and connectors are used to to other equipment. To prevent electromagnetic interference with electric n as radios and televisions, use shielded cables and connectors for

or U.S.A):

has been tested and found to comply with the limits for a Class B digital t to Part 15 of the FCC rules. These limits are designed to provide reason- against harmful interference in a residential installation. This equipment gen- d can radiate radio frequency energy and, if not installed and used in accor- nstructions, may cause harmful interference to radio or television reception, termined by turning the equipment off and on, the user is encouraged to try erference by one or more of the following measures.
ocate the receiving antenna.
eparation between the equipment and receiver.
quipment into an outlet on a circuit different from that to which the receiver is

aler or an experienced radio/TV technician for help.
gital apparatus meets all requirements of the Canadian Interference -- ment Regulations.

CLASS 1 LASER PRODUCT
LUOKAN 1 LASER LAITE
KLASS 1 LASER APPARAT

Precautions

WARNING	CAUTION
To reduce the risk of fire or shock hazard, do not expose this DVD player to rain or moisture.	THIS PRODUCT UTILIZES A LASER. USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE. DO NOT OPEN COVER AND DO NOT REPAIR YOURSELF. REFER SERVICING TO QUALIFIED PERSONNEL.

Note:
- This unit can be used only where the power supply is AC 120V, 60Hz. It cannot be used elsewhere.
- This DVD player is designed and manufactured to respond to the Region Management Information. If the Region number of a DVD disc does not correspond to the Region number of this DVD player, the DVD player cannot play the disc.
- This device is protected by U.S. patent numbers 4,631,603, 4,577,216 and 4,819,098 and other intellectual property rights. The use of Macrovision's copy protection technology in the device must be authorized by Macrovision and is intended for home and other limited pay-per-view uses only, unless otherwise authorized in writing by Macrovision. Reverse engineering or disassembly is prohibited.

Handling Cautions

- Before connecting other components to this player, be sure to turn them all off.
- Do not move the player while a disc is being played, or the disc may be scratched or broken, and the player's internal parts may be damaged.
- Do not put a flower vase filled with water or any small metal objects on the player.
- Be careful not to put your hand into the disc tray.
- Do not place anything other than the disc in the disc tray.
- Exterior interference such as lightning and static electricity can affect normal operation of this player. If this occurs, turn the player off and on again with the POWER button, or disconnect and then reconnect the AC power cord to the AC power outlet. The player will operate normally.
- Be sure to remove the disc and turn off the player after use.
- Disconnect the AC power cord from the AC outlet when you don't intend to use the player for long periods of time.
- Clean the disc by wiping in a straight line from the inside to the outside of the disc.

Disc Storage

Be careful not to harm the disc because the data on these discs is highly vulnerable to the environment.
- Do not keep under direct sunlight.
- Keep in a cool ventilated area.
- Store vertically.
- Keep in a clean protection jacket.

Maintenance of Cabinet

For safety reasons, be sure to disconnect the AC power cord from the AC outlet.
- Do not use benzene, thinner, or other solvents for cleaning.
- Wipe the cabinet with a soft cloth.

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You Start

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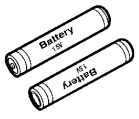
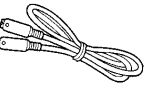


Batteries for Remote Control (AA Size)

Video/Audio Cable



S-Video Cable

User's Manual

Batteries in the Remote

the battery cover
back of the
e.

wo AA batteries.
sure that the
es (+ and -) are
l correctly.

ce the battery

If remote doesn't operate properly:

- Check the polarity + - of the batteries (Dry-Cell)
- Check if the batteries are drained.
- Check if remote sensor is blocked by obstacles.
- Check if there is any fluorescent lighting nearby.

s/CD-Rs recorded in a format different from the global DVD ats adopted by Samsung, may not be played.
s recorded under different manufacturing quality, may not be

aining MP3 files (with "*.mp3" extension), above 128K bps ne less than 8 letters, can be played.

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l Features

ound
a technology developed by Dolby Laboratories provides sound reproduction.

PEG-2 compression technology. Both regular and 6:9) pictures can be viewed.

scene can be viewed in slow motion.

d Play
ram tracks to play in desired order.

ntrol
control allows users to set the level necessary to prohibit viewing harmful movies such as those with violence, adult r, etc.

Screen Menu Functions
ct various languages(Audio/Subtitle) and screen angles while ies.

at a song or movie simply by pressing the REPEAT button.

COPY PROTECTION

- **Many DVD discs are encoded with copy protection. Because of this, you should only connect your DVD player directly to your TV, not to a VCR. Connecting to a VCR results in a distorted picture from copy-protected DVD discs.**
- This product incorporates copyright protection technology that is protected by methods claims of certain U.S. patents and other intellectual property rights owned by Macrovision Corporation and other rights owners. Use of this copyright protection technology must be authorized by Macrovision Corporation, and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision Corporation. Reverse engineering or disassembly is prohibited.

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ype and Characteristics

yer is capable of playing the following types of discs with the g logos:

s	Recording Types	Disc Size	Max. Playing Time	Characteristics
	Audio + Video	5"	Single-sided 240 min. Double-sided 480 min.	• DVD contains excellent sound and video due to Dolby Digital and MPEG-2 system. • Various screen and audio functions can be easily selected through the on-screen menu.
		3 1/2"	Single-sided 80 min. Double-sided 160 min.	
	Audio + Video	5"	74 min.	• Video with CD sound, VHS quality & MPEG-1 compression technology.
		3 1/2"	20 min.	
	Audio	5"	74 min.	• An LP is recorded as an analog signal with more distortion. CD is recorded as a Digital Signal with better audio quality, less distortion and less deterioration of audio quality over time.
		3 1/2"	20 min.	

CD-ROM, CD-I and DVD-ROM in this player!
io only, not graphics.)

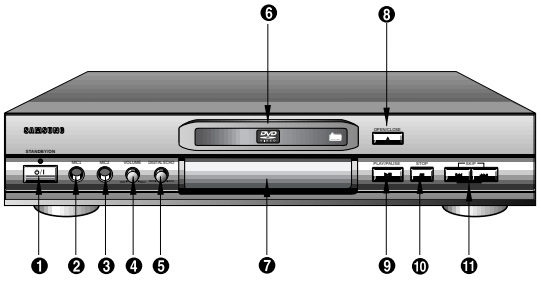
kings

PAL	DOLBY DIGITAL	STEREO	DIGITAL SOUND	dts
• PAL broadcast system in Australia, U.K, France, Germany, etc.	• Dolby Digital disc	• Stereo disc	• Digital Audio disc	• DTS disc

egion Number

layer and the discs are coded by region. These regional codes must for the disc to play. If the codes do not match, the disc will not play.
umber for this player is described on the rear panel of the player.

Description-Front Panel



Front Panel Controls

❶ **STANDBY / ON**
• When the unit is first plugged in, the indicator lights. When STANDBY/ON is pressed on again, the light goes out and the player is turned on.

❷ **MIC 1**
• Connect microphone 1 for Karaoke functions.

❸ **MIC 2**
• Connect microphone 2 for Karaoke functions.

❹ **VOLUME**
• Use to adjust microphone volume level.

❺ **DIGITAL ECHO**
• Use to adjust echo delay.

❻ **DISC TRAY**
• Press OPEN/CLOSE to open and close the disc tray.

❼ **DISPLAY**
• Operation indicators are displayed here.

❽ **OPEN/CLOSE**
• Press to open and close the disc tray.

❾ **PLAY/PAUSE**
• Begin or pause disc play.

❿ **STOP**
• Stops disc play.

⓫ **SKIP**
• Use to skip a scene or music.

SETUP

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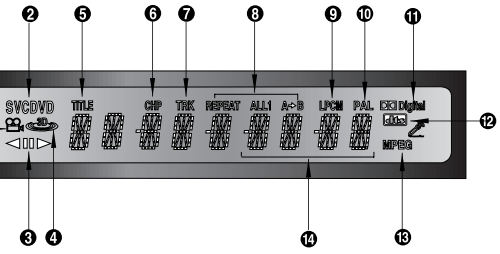
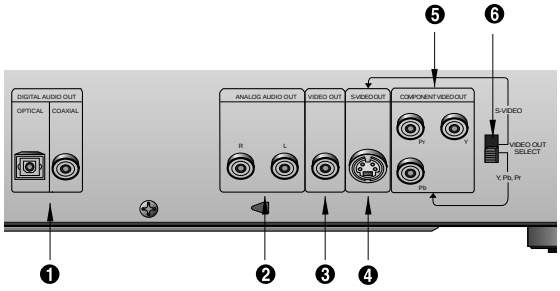
anel Display



el Display

tor. You can select multiple angles of a scene recorded by different cameras.
licators
yback / Pause / Forward playback
3D surround is turned on.
umber
ter number.
CD : Track number
mode
audio output
r
Disc
Theater System) output
dio output
ious messages concerning operations such as PLAY, STOP, LOAD, RANDOM, ...
o disc loaded.
disc tray is open.
er is loading disc information.

Description-Rear Panel



Rear Panel

❶ DIGITAL AUDIO OUT JACK
- Use either an optical or coaxial digital cable to connect to a compatible Dolby Digital receiver. Use to connect to an A/V Amplifier that contains a Dolby Digital decoder or DTS decoder.

❷ ANALOG AUDIO OUT JACKS
- Connect to the Audio input jacks of your television, audio/video receiver, or VCR.

❸ VIDEO OUT JACK
- Use a video cable to connect to the Video input jack on your television.

❹ S-VIDEO OUT JACK
- Use the S-Video cable to connect this jack to the S-Video jack on your television for a higher quality picture. The S-Video must be selected in the VIDEO OUT SELECT.

❺ COMPONENT VIDEO OUT JACKS
- Use these jacks if you have a TV with Component Video in jacks. These jacks provide Pr, Pb and Y video. Along with S-Video, Component Video provides the best picture quality. The Y, Pb, Pr must be selected in the VIDEO OUT SELECT.

❻ VIDEO OUT SELECT SWITCH
- Use the switch to set video out.
- If Y, Pb or Pr is selected, S-Video may not work. If S-Video is selected, Y, Pb or Pr may not work.

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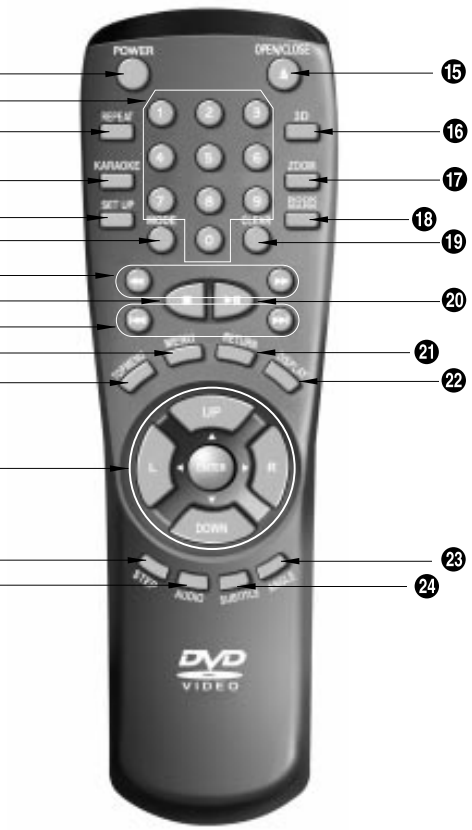
the Remote Control



Tour of the Remote Control

DVD Function Buttons

❶ **DVD POWER Button**
❷ **NUMBER Buttons**
❸ **REPEAT Button**
• Allows you to repeat play a title, chapter, track, or disc.
❹ **KARAOKE Button**
• Use to begin karaoke functions.
❺ **SETUP Button**
• Brings up the DVD player's Setup menu.
❻ **MODE Button**
• Allows you to program a specific order.
❼ **SEARCH Buttons**
• Allows you to search forward/backward through a disc.
❽ **STOP Button**
❾ **SKIP Buttons**
• Use to skip the title, chapter, or track.
❿ **MENU Button**
• Brings up the Disc menu
⓫ **TOP MENU Button**
• Accesses a music or video display directly.
⓬ **ENTER/DIRECTION Button (UP/DOWN or LEFT/RIGHT Button)**
⓭ **STEP Button**
• Advances playback one frame at a time.
⓮ **AUDIO Button**
• Use this button to access various audio functions on a disc.
⓯ **OPEN/CLOSE Button**
⓰ **3D SOUND Button**
⓱ **ZOOM Button**
⓲ **BOOKMARK Button**
⓳ **CLEAR Button**
• Use to remove menus or status displays from the screen.
⓴ **PLAY/PAUSE Button**
• Begin/Pause disc play.
㉑ **RETURN Button**
• Returns to a previous menu.
㉒ **DISPLAY Button**
• Displays the current disc mode.
㉓ **ANGLE Button**
• Use to access various camera angles on a DVD.
㉔ **SUBTITLE Button**
• When a disc is playing, press this button to make subtitles appear and disappear on the screen.

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ng a Connection

show examples of connections commonly used to connect er with a TV and other components.

Connecting the DVD Player

off the DVD player, TV, and other components before you con-onnect any cables.
ner's manual of the additional components you are connecting for ation for those particular components.

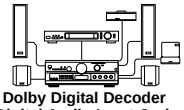
ction to an Audio System

ethod 1

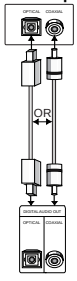
Amplifier
Input Jacks

g Audio Out

Method 2



Dolby Digital Decoder
Digital Audio Input Jack



Digital Audio Out

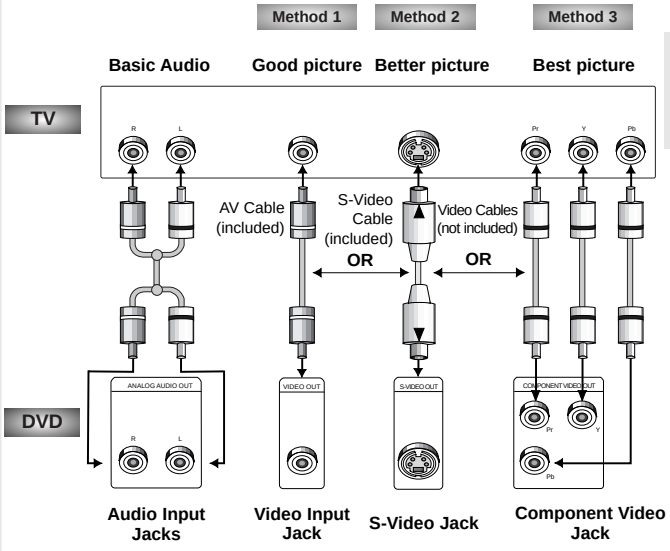
AUDIO

DVD

Choosing a Connection

Connection to a TV (For Video)

TV (Normal, Widescreen, Projection, etc..)



- **Method 1** DVD Player + TV with Video Input Jack
- **Method 2** DVD Player + TV with S-Video Input Jack
  (If S-Video is selected in the VIDEO OUT SELECT.)
- **Method 3** DVD Player + TV with Component Video Jacks
  (If Y, Pb or Pr is selected in the VIDEO OUT SELECT.)

NOTE

- If Y, Pb or Pr is selected, S-Video may not work.
- If S-Video is selected, Y, Pb or Pr may not work.

CONNEC-TIONS

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Before Playback

- Turn on a TV and press the TV/VIDEO button to select video mode.
- Turn on your Audio System and select AUX, CD or DVD.
- Refer to your AUDIO User's Manual.

After plugging in the player, the first time you press the DVD POWER button, this screen comes up :

If you want to select the language, press a NUMBER button. (This screen will only appear the very first time you plug in the player.)

Playback

1 Press the OPEN/CLOSE button.
The STANDBY indicator light goes out and the tray opens.

2 Place a disc gently into the tray with the disc's label facing up.

3 Press the PLAY/PAUSE button or OPEN/CLOSE button to close the disc tray.

unction

disc play, the player remembers where you stopped, so when you press will pick up where you left off (unless the disc is removed, the STOP button e or the player is unplugged.).

s left for 5 minutes in pause mode, it will stop.
automatically turned off after approximately 30 minutes have elapsed in e (auto power-off feature).
s left in the stop mode for more than one minute without any user interac- saver will be activated, and the TV screen will fade in and fade out repeat- LAY button to resume normal play.
indicates an invalid button press.

1 Stopping Playback
Press the STOP button during playback.

2 Removing Disc
Press the OPEN/CLOSE button.

3 Pausing Playback
Press the PLAY/PAUSE or STEP button on the remote during playback.
- Screen stops, no sound.
- To resume again, press PLAY/PAUSE button once again.

4 Step Motion Playback (Except CD)
Press the STEP button on the remote during playback.
- Each time the button is pressed, a new frame will appear.
- No sound is heard during STEP mode.
- Press PLAY/PAUSE to resume normal play-back.

(You can only perform step motion playback in the forward direction.)

5 Slow Motion Playback (Except CD)
Press the FWD or REV SEARCH button on the remote during PAUSE or STEP mode.
- By pressing the SEARCH button, you can select slow motion playback for 1/2, 1/4 or 1/8 of normal speed.
- No sound is heard during slow mode.
- Press PLAY/PAUSE to resume normal play-back.
- When playing a VCD, the reverse slow motion playback will not work.

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he Search & Skip Functions

ack, you can search quickly through a chapter or track or use ion to jump to the next selection.

Searching through a Chapter or Track

1 During playback, press the FWD or REV SEARCH button on the remote.

- Press the REVERSE or FORWARD SEARCH button on the remote and press again to search at a faster speed(2X/4X/8X/16X/32X/normal speed, in order) on the DVD.
- Press the REVERSE or FORWARD SEARCH button on the remote and press again to search at a faster speed(4X/8X/normal speed in order) on VCD and CD.
- To return to normal speed playback, press the PLAY/PAUSE button.

Skipping Tracks

2 During playback, press the NEXT SKIP or BACK SKIP button.

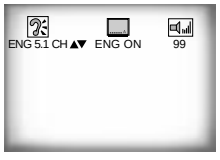
- When playing a DVD, if you press the NEXT SKIP button, it moves to next chapter. If you press the BACK SKIP button, it moves to the beginning of the chapter. One more press makes it move to the beginning of the previous chapter.
- When playing a VCD 2.0 in MENU OFF mode, a VCD 1.1 or a CD, if you press the NEXT SKIP button, it moves to next track. If you press the BACK SKIP button, it moves to the the beginning of the track. One more press makes it move to the beginning of the previous track.
- If a track exceeds 15 minutes when playing a VCD and you press the NEXT SKIP button, it moves forward 5 minutes. If you press the BACK SKIP button, it moves backward 5 minutes.
- When playing a VCD 2.0 in the MENU MODE or Track View function, if you press the NEXT SKIP button, it moves to the next MENU or the next Track View display. If you press the BACK SKIP button, it moves to the previous MENU or the previous Track View display. (See page 22.)

ch mode
2X) on a
peed play-
D, no sound

AN AUDIO is
he SETUP
und will be
s which are
LPCM, DTS

the disc,
be heard
in 2X play-

Using the Display Function



When Playing a DVD

1 During playback, press the DISPLAY button on the remote.

- Current title, chapter number and elapsed time will be displayed.
- Use the LEFT/RIGHT button to select a title or a chapter number.
  Use the UP/DOWN button or Number buttons to enter a different title or chapter number, then press the ENTER button.
- To enter the time from which you want to start, use the LEFT/RIGHT button to select, then use the Number buttons to enter the time. Then press the ENTER button.

2 Press the DISPLAY button on the remote twice.

- Current audio, subtitle and volume control will appear.
- To make the screen disappear, press the DISPLAY button again.

When Playing a CD/VCD

1 During playback, press the DISPLAY button on the remote.

- Current track number, elapsed time and volume control will be displayed.
- Use the LEFT/RIGHT button to select a track. Use the UP/DOWN button or Number buttons to enter a different track number, then press the ENTER button.
- To enter the time from which you want to start, use the LEFT/RIGHT button to select, then use the Number buttons to enter the time. Press the ENTER button.

- To make the screen disappear, press the DISPLAY button again.

NOTE

What is a Chapter?
Each Title on a DVD can be divided into chapters (similar to tracks on an audio CD).

What is a Title?
A DVD may contain several different titles. For example, if a disc contains four different movies, each might be considered a title.

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Play

urrent track, chapter, title, a chosen section (A-B), or all of the
only).

When playing a DVD

1 Press the REPEAT button on the remote. Repeat screen appears.

2 Select Chapter, Title or A-B using the LEFT/RIGHT button.

- A-B Repeat
• Press the REPEAT button. Select A-B on screen with the LEFT/RIGHT button. Or press the A-B button on the remote.
• Press ENTER at the point where you want the repeat play to start (A). The B is automatically highlighted.
• Press ENTER at the point where you want the repeat play to stop (B).
• The A-B Repeat that you set plays until you turn Repeat off.

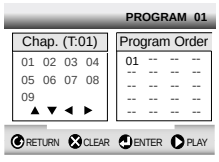
3 Press ENTER.

4 To return to normal playback press REPEAT again, then press the LEFT/RIGHT button to select Off and press ENTER.

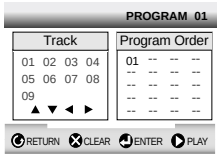
playback by chapter or title, CD and VCD repeat playback by disc or track.
the disc, the Repeat function may not work.
rack is completed before marking the end (B), the end of title or track
utomatically.
2.0 mode (MENU ON mode), this function does not work.

Program Play & Random Play

DVD



VCD/CD



Program Playback (DVD/VCD/CD)

1 Press the MODE button.

2 Use the LEFT/RIGHT button to select PROGRAM. Press the ENTER button.

3 Use the LEFT/RIGHT button to select the first chapter (or track) to add to the program. Press the ENTER button. The selection numbers appear in the Program Order box.

4 Press the PLAY/PAUSE button. The disc will be played back in programmed order.

Random Playback (DVD/VCD/CD)

1 Press the MODE button.

2 Use the LEFT/RIGHT button to select RANDOM. Press the ENTER button. The disc will be played back in random order.

NOTE

- Depending on the disc, the Program and Random Playback function may not work.
- When in VCD 2.0 mode (MENU ON mode), these functions do not work.
- To resume normal playback, press the CLEAR button.

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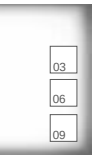
he Disc View Function

Track View (VCD)

Displays the beginning view of each track and the track number.

1. During playback, press the TOP MENU button.
2. Press the UP/DOWN button to select TRACK VIEW. Press the ENTER button.
3. Select the desired view by pressing the UP/DOWN or LEFT/RIGHT buttons.
4. Press the ENTER button.



Index View (VCD)

Displays the equally divided 9 views of the current playing track.

1. During playback, press the TOP MENU button.
2. Press UP/DOWN button to select INDEX VIEW. Press the ENTER button.
3. Select the desired view by pressing UP/DOWN or LEFT/RIGHT buttons.
4. Press the ENTER button.

on VCD, press the TOP MENU button and the TRACK VIEW will be dis-

ing the TOP MENU button with a DVD; the disc's TITLE MENU func-
. A disc must have at least two titles for the TITLE MENU function to work.
ing the TOP MENU button with a CD; the unit enters the INTRO
lets you listen to the beginning of each track for about 10 seconds.

Selecting the Audio Language

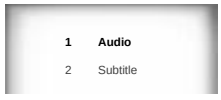
You can select a desired language quickly and easily with the AUDIO button.

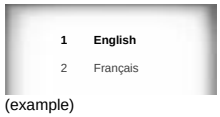
Using the AUDIO Button

1. Press the AUDIO button.
2. Use the UP/DOWN button to select the desired language on a DVD.

- The audio and subtitle languages are represented by abbreviations.

3. Use the UP/DOWN button to select STEREO, R CHANNEL or L CHANNEL. (On VCD/CD)





(example)

NOTE

- This function depends on what languages are encoded on the disc and may not work with all DVDs.
- A DVD disc can contain up to 8 audio languages.
- **How to have the same audio language come up whenever you play back a DVD;** Refer to "Setting Up the Language Features" on page 33.

Using the MENU Button

When playing a DVD

1. Press the MENU button.
2. Use the UP/DOWN button to select AUDIO information.
3. Press the ENTER button.
4. Use the UP/DOWN button to select 'ENGLISH'.
5. Press the ENTER button.

When playing a VCD

In disc version 2.0, the MENU button works as a conversion switch between MENU ON and MENU OFF mode. When playing a VCD 1.1 or CD, the MENU button will not work.

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ng the Subtitle Language

ct a desired subtitle quickly and easily with the SUBTITLE

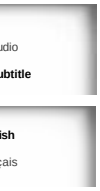
Using the SUBTITLE button

1 Press the SUBTITLE button.

2 Use the UP/DOWN button to select the desired subtitle language.

3 Use the LEFT/RIGHT button to determine whether or not the subtitle will be displayed.

- Initially, the subtitling will not appear on screen.
- The audio and subtitle languages are represented by abbreviations.



Using the MENU button

1 Press the MENU button.

2 Use the UP/DOWN button to select SUBTITLE information.

3 Press the ENTER button.

4 Use the UP/DOWN button to select the desired language.

5 Press the ENTER button.

When playing a VCD

In disc version 2.0, the MENU button works as a conversion switch between MENU ON and MENU OFF mode.
When playing a VCD 1.1 or CD, the MENU button will not work.

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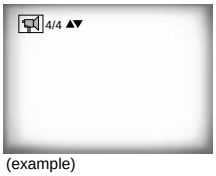
Changing the Camera Angle

When a DVD contains multiple angles of a particular scene, you can select the Angle function.



(example)

Using the ANGLE button

Check to see if an 'ANGLE ( )' mark is present at the upper left hand corner of the screen.

1 When an 'ANGLE' mark is shown, press the ANGLE button.

2 Use the UP/DOWN button to select the desired screen angle. Then press the ENTER button.

3 To turn off the display, press the ANGLE button again.

ADVANCED FUNCTIONS

Using the Master Volume Control Function

Press the DISPLAY button twice. Use the UP/DOWN button to select a suitable volume.

- Master Volume Control function lets you adjust the volume of the player's output. This is useful for matching the player's output level to other equipment in your system.
- Master Volume Control function on CD titles with DTS will not work under VOLUME : 96 level.
- When the DIGITAL OUTPUT is set to BITSTREAM in the SETUP MENU, the Volume Control function will not work.

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he Bookmark Function

rk function lets you select parts of a DVD or VCD (MENU o that you can quickly find the section at a later time.

Using the Bookmark Function (DVD/VCD)

1. During playback or pause, press the BOOKMARK button on the remote. A marker will be displayed.
2. Use the LEFT/RIGHT button to move to the desired bookmark icon.
3. When you reach the scene you want to mark, press the ENTER button. The icon will change to a number (1, 2, or 3).
4. Press the BOOKMARK button to turn off the display.

Recalling a Marked Scene

1. During playback, press the BOOKMARK button on the remote.
2. Use the LEFT/RIGHT button to select a marked scene.
3. Press the PLAY/PAUSE button to skip to the marked scene.

Clearing a Bookmark

1. During playback, press the BOOKMARK button on the remote.
2. Use the LEFT/RIGHT button to select the bookmark number you want to delete.
3. Press the CLEAR button to delete a bookmark number.
   Press the BOOKMARK button to turn off display.

cenes may the same

2.0 mode ode), this not work. the disc, function

Using the Zoom & 3D Sound Functions

Using the Zoom Function (DVD/VCD)

1. During playback or pause mode, press the ZOOM button on the remote. A square will be displayed on screen.
2. Use the UP/DOWN or LEFT/RIGHT button to select the part of the screen you want to zoom.
3. Press the ENTER button.

- During DVD playback, press ENTER to zoom in 2X/4X/normal in order.
- During VCD playback, press ENTER to zoom in 2X/normal in order.

NOTE

- 3D Sound is possible only on discs recorded using DOLBY SURROUND or DOLBY DIGITAL. However, some of these discs do not contain rear channel sound signals.
- Depending on the disc, the Zoom and 3D Sound function may not work.

Using the 3D Sound Function

The simulated surround effect (SPATIALIZER N-2-2) depends on the disc contents. If you connect the unit to your stereo system, you can enhance sound quality and produce a greater surround effect.
This feature is useful when you are using the DVD player with a two channel stereo through the analog outputs.
(Discs which are recorded with LPCM or DTS will not work. When the DIGITAL OUTPUT is set to BITSTREAM in the SETUP MENU, the 3D Sound function will not work.)

1. During playback, press the 3D SOUND button. The 3D SOUND mark will be displayed on screen. (Be sure the DIGITAL OUTPUT is set to PCM.)
2. Press the UP/DOWN button to turn the 3D Sound feature on or off.
3. When the Karaoke function is on, the 3D sound can't be operated.

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ing Karaoke Functions

Operation Sequence

1 Connect the ALALOG AUDIO Out terminals with the TV or AMP.

2 Press the power button.

3 Connect Mic into Mic 1 or Mic 2 jack. Then the karaoke mode is transferred to ON mode.

- To disconnect the Mic makes the karaoke mode transfer to OFF mode automatically.

Key Control

1 Pressing the KARAOKE button makes the karaoke ON mode.

2 Select the "KEYCON" using the LEFT/RIGHT buttons.

3 By use of the LEFT/RIGHT buttons, change to the desired tone.

♭ : To let 7 scales down by half scale.
♮ : Original scale.
♯ : To let 7 scales up by half scale.

function is not applied to the Mic output.

raoke disc

isc

5CH. DVD	2CH. DVD
ft stereo music	Left stereo music + Vocal
ight stereo music	Right stereo music + Vocal
uide melody	-
ocal track	-
ocal track	-

• CVD, VCD Karaoke Disc

Channel	Karaoke -Channel	CVD	VCD, CD
1 CH	CH1 LEFT	Left stereo music + Vocal	Left stereo music
1 CH	CH1 RIGHT	Right stereo music + Vocal	Right stereo music + Vocal
2 CH	CH2 LEFT	Left stereo music	-
2 CH	CH2 RIGHT	Right stereo music	-

Reserving a Song

It is the function to reserve the desired song in advance by use of Karaoke function

Sequence of reservation

1 Playback the Karaoke Disc containing the wanted songs.

2 After pushing the KARAOKE button of the remote transfer to the Karaoke ON mode using the UP/DOWN buttons.

3 Select the "REQUEST" using the LEFT/RIGHT buttons.

4 Input the number (Track No.) of the desired song into the flickering part(--).

- You can reserve up to 10 songs.

5 When you want the next reserved song during playing a song, press the SKIP button.

Cancellation of reservation

1 Cancel by pressing the CLEAR button of the remote.

- The last reserved song will be erased first.

2 Continuous pressing of the CLEAR button can cancel the next reserved song.

3 If the reservation is required again, input the song number in the flickering part.

NOTE

- Request function is available only when the Karaoke mode is "ON".
- When using "SKIP" button, it can not work at the last song.
- When using Request function, the "DISPLAY" and "REPEAT" function does not work.

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unction

Sequence of reservation

: on ◄►
: off
: off

1 Pressing the KARAOKE button twice displays the following in Karaoke ON mode:

Vocal Assist

– To put the vocal assist on when playing a Karaoke disc can change the vocal recorded on the disc (singer's voice) with your own voice.
– The Vocal changed is one of the selected channel on "VOCAL FADER".

	VOCAL ASSIST	VOCAL FADER	Remark
↓	ON	V1	CH1. Vocal Change
↓	ON	V2	CH2. Vocval Change
↓	ON	1 + 2	CH1, CH2 CH. Vocal Change
↓	OFF	OFF	Vocal Assist Off

CAUTIONS

- This function is limited only to Karaoke disc and does not work to the normal music disc.
- When putting the VOCAL FADER off, the VOCAL ASSIST is off automatically, too.

Vocal Fader

– The function to make the music only sound by cancelling vocal when playing a Karaoke disc.

	VOCAL FADER	Remark
↓	V1	CH1. Vocal Cancel
↓	V2	CH2. Vocal Cancel
↓	1 + 2	CH1, CH2. Vocal Cancel
↓	OFF	Vocal Fader Off

– In VCD, CVD or CD, you can select only the ON or OFF.

Guide Melody

– To guide melody through xylophone and piano help you sing easily.
– This function works only on the DVD Karaoke disc on which the guide melody is recorded.

Using the Setup Menu

The Setup menu lets you customize your DVD player by allowing you to select various language preferences, set up a parental level, even adjust the player to the type of television screen you have.

1 With no disc playing, press the SETUP button on the remote.

❶ **PLAYER MENU :** Setup of the Display Language (See page 32)
Use the Player preference menu to select the language for the player's on-screen displays.

❷ **DISC MENU :** Setup of the Menu Language (See page 32)
Use the Menu preference menu to select the language you want a DVD's disc menu to be displayed in.

❸ **AUDIO :** Setup of the Audio Language (See page 33)
Use the Audio preference menu to select the soundtrack language.

❹ **SUBTITLE :** Setup of the Subtitle Language (See page 33)
Use the Subtitle preference menu to select the language the disc's subtitles are to be displayed in.

❺ **PARENTAL :** Setup of the Parental Level (See page 34)
Allows users to set the level necessary to prevent children from viewing unsuitable movies such as those with violence, adult subject matter, etc.

❻ **AUDIO OPTIONS :** Setup of the Audio Options (See page 35)

❼ **DISPLAY OPTIONS :** Setup of the Display Options (See page 36)
Use to select which type of screen you want to watch and several display options.

2 Use the UP/DOWN button on the remote to access the different features.

3 Press the ENTER button to access the sub features.

To make the setup screen disappear after setting up, press the SETUP button again.

NOTE

Depending on the disc, some Setup Menu selections may not work.

CHANGING SETUP MENU

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/7/02 6:16 PM Page 32

Up the Language Features

player menu, disc menu, audio and subtitle language in
ill come up automatically every time you watch a movie.

in ENGLISH.

Using the Player Menu

1 With no disc playing or stop, press the SETUP button.

2 Use the UP/DOWN button to select the PLAYER MENU.

3 Press the ENTER button.

4 Use the UP/DOWN button to select 'ENGLISH'.

5 Press the ENTER button.

- ENGLISH is selected and the screen returns to SETUP MENU.
- To make the SETUP MENU disappear, press the RETURN button.

in ENGLISH.

Using the Disc Menu Language

This function changes the language only for the text on the disc menu screens.

1 With no disc playing or stop, press the SETUP button.

2 Use the UP/DOWN button to select DISC MENU.

3 Press the ENTER button.

4 Use the UP/DOWN button to select 'ENGLISH'.

- Select "OTHERS" if the language you want is not listed.

5 Press the ENTER button.

- ENGLISH is selected and the screen returns to SETUP MENU.

Setting Up the Language Features

Using the Audio Language

1 With no disc playing or stop, press the SETUP button.

2 Press the UP/DOWN button to move to AUDIO.

3 Press the ENTER button.

4 Press the UP/DOWN button to select 'ENGLISH' .

- Select "ORIGINAL" if you want the default soundtrack language to be the original language the disc is recorded in.
- Select "OTHERS" if the language you want is not listed.

5 Press the ENTER button.

- ENGLISH is selected and the screen returns to SETUP MENU.

Using the Subtitle Language

1 With no disc playing or stop, press the SETUP button.

2 Use the UP/DOWN button to select SUBTITLE.

3 Press the ENTER button.

4 Use the UP/DOWN button to select 'ENGLISH'.

- Select "AUTOMATIC" if you want the subtitle language to be the same as the language selected as the audio preference.
- Select "OTHERS" if the language you want is not listed. Some discs may not contain the language you select as your initial language; in that case the disc will use its original language setting.

5 Press the ENTER button.

- ENGLISH is selected and the screen returns to SETUP MENU.

NOTE

- If the selected language is not recorded on the disc, the original pre-recorded language is selected.
- **How to make the SETUP MENU disappear or return to menu screen during set up;**
  Press RETURN button.

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Up the Parental Control

Control function works in conjunction with DVDs that have
d a rating - which helps you control the types of DVDs that
atches. There are up to 8 rating levels on a disc.

1 With no disc playing or stop press SETUP. The Setup Menu screen appears.

2 Use UP/DOWN to select Parental. Press ENTER. The Parental Control screen appears.

3 Use LEFT/RIGHT to select Yes if you want to use a password. Press ENTER. The Enter Password screen appears.

4 Enter your password. The Re-enter Password screen appears to confirm the password. Enter your password again. The Parental Control screen appears.

5 **About the Rating Level** ;

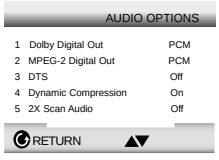
The Rating Level will work only when Use Password is set to Yes. To unlock the player, use LEFT/RIGHT to select No. Use UP/DOWN to select Rating level. Press ENTER.
- Use UP/DOWN to select the level(e.g. Level 6) and press ENTER. The disc that contains Level 7 will now not play.
- To cancel the rating level, use LEFT/RIGHT to select No in Use Password.

6 **About the Change Password** ;

- Use UP/DOWN to select Change Password. The Change Password screen appears.
- Enter your new password. Re-enter the new password again.

e the SETUP MENU disappear or return to menu screen during set up;
RN button.
orgotten your password, see Forget Password in the Troubleshooting Guide.

Setting Up the Audio Options



1 With no disc playing or stop, press the SETUP button.

2 Use the UP/DOWN button to select AUDIO OPTIONS. Then press the ENTER button.

3 Use the UP/DOWN button to select the desired item. Then press the LEFT/RIGHT button.

❶ DOLBY DIGITAL OUT / ❷MPEG-2 DIGITAL OUT
1 PCM : Converts to PCM(2CH) 48kHz/16Bit audio. Select PCM when using the Analog Audio Outputs.
2 BITSTREAM : Converts to Dolby Digital BITSTREAM - 5.1CH (in case of MPEG-2, 7.1CH). Select BITSTREAM when using the Digital Audio Output.

NOTE : Be sure to select the correct Digital Output or no audio will be heard.

❸ DTS
1 ON : Outputs DTS BITSTREAM via digital output only. Select DTS when connecting to a DTS DECODER.
2 OFF : Doesn't output digital signal.

❹ DYNAMIC COMPRESSION
1 ON : To select dynamic compression.
2 OFF : To select the standard range.

❺ 2X SCAN AUDIO
1 ON : Turns 2X audio on.
2 OFF : Turns 2X audio off.
Though 2X SCAN AUDIO is ON in the SETUP MENU, no sound will be heard on discs which are recorded with LPCM, DTS or MPEG-2.

NOTE

- **How to make the SETUP MENU disappear or return to menu screen during set up;**
Press RETURN button.

- Certain audio features of this product manufactured under a license from Desper Products, Inc. Spatializer® and circle-in-square device are trademarks owned by Desper Products, Inc.
- Manufactured under license from Dolby Laboratories. "Dolby" and the double-D symbol are trademarks of Dolby Laboratories. Confidential unpublished works. ©1992-1997 Dolby Laboratories Inc. All rights reserved.
- "DTS" and "DTS Digital Out" are trademarks of Digital Theater Systems, Inc.

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Up the Display Options

PLAY OPTIONS
4:3 L-Box
Auto
On
Auto Dim
Off
Off
▲▼ ENTER

1 With no disc playing or stop, press the SETUP button.

2 Use the UP/DOWN button to select DISPLAY OPTIONS. Then press the ENTER button.

3 Use the UP/DOWN button to select the desired item. Then press the LEFT/RIGHT button.

❶ **TV ASPECT**
Depending on the type of television you have, you may want to adjust the screen setting (aspect ratio).
4:3 LETTER BOX :
1 Select when you want to see the total 16:9 ratio screen DVD supplies, even though you have a TV with a 4:3 ratio screen. Black bars will appear at the top and bottom of the screen.
4:3 PAN-SCAN :
2 Select this for conventional size TVs when you want to see the central portion of the 16:9 screen. (Extreme left and right side of movie picture will be cut off.)
16:9 WIDE :
3 You can view the full 16:9 picture on your widescreen TV.

❷ **STILL MODE**
Prevent picture shaking in still mode and display small text clearer.
1 FIELD : Select this feature when the screen shakes in the AUTO mode.
2 FRAME : Select this feature when you want to see small letters more clearly in the AUTO mode.
3 AUTO : When selecting AUTO, FIELD/FRAME mode will be automatically converted.

❸ **SCREEN MESSAGES**
Use to turn on-screen messages on or off.

❹ **FRONT DISPLAY**
Adjust the brightness of the unit's front panel display.
1 BRIGHT : Makes the Front Panel Display bright.
2 DIM : Makes the Front Panel Display dim.
3 AUTO DIM : Makes the Front Panel Display dim automatically when playing a DVD.

❺ **BLACK LEVEL**
Adjusts the brightness of the screen.

❻ **QUASI-PAL**
Depending on a disc, you can play a NTSC DVD disc by QUASI-PAL mode.

e the SETUP
pear or
nu screen
p;
RN button.

Troubleshooting Guide

Before requesting service (troubleshooting)

Problem	Action	Page
No operations can be performed with remote.	• Check the batteries in the remote. May need replacing. • Operate the remote control at a distance of no more than 20 feet. • Remove batteries and hold down one or more buttons for several minutes to drain the microprocessor inside the remote to reset it. Reinstall batteries and try remote again.	P4
Disc does not play.	• Ensure that the disc is installed with the label side facing up. • Check the region number of the DVD. • This player cannot play CD-ROMs, DVD-ROMs, CD-R, etc. Insert a DVD, a VIDEO-CD or a CD.	P8
5.1 channel sound is not being reproduced.	• 5.1 channel sound is reproduced only when the following conditions are met. : 1)The DVD player is connected with the proper amplifier 2)The disc is recorded with 5.1 channel sound. • Check whether the disc being played has the "Dolby 5.1 ch" mark on the outside. • Check if your audio system is connected and working properly.	P14-15
The ⊘ icon appears on screen.	• The features or action cannot be completed at this time because: 1. The DVD's software restricts it. 2. The DVD's software doesn't support the feature (e.g., angles). 3. The feature is not available at the moment. 4. You've requested a title or chapter number or search time that is out of range.	P18-21 P24-28
Disc Menu doesn't appear.	• Check if the disc has a Menu.	P23-24
Playback mode differs from the Setup Menu selection.	• Some of the functions selected in the Setup Menu may not work properly if the disc is not encoded with the corresponding function.	P31-36
The screen ratio cannot be changed.	• The Screen Ratio is fixed on your DVDs.	P36
No audio.	• Make sure you have selected the correct Digital Output in the Audio Options Menu.	P35
Forgot password	• Press power on from a cold start with no disc in the unit. Press the STOP and PLAY buttons simultaneously on the front panel for three seconds. The Select Menu Language display will appear. Select the desired language button. Press the SETUP button on the remote control to select the Parental Mode. The Parental Mode is now unlocked as indicated on the display. Press the DOWN button to select Parental. Press ENTER and the Create Password display will appear. You can now set your rating level and change your password to a new number.	P34
If you experience other problems.	• Go to the contents and find the section of the instruction book that contains the explanations regarding the current problem, and follow the procedure once again. • If the problem still cannot be solved, please contact your nearest authorized service center.	

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cations

Power Requirements	AC 110 V ~ 240 V, 50/60 Hz
Power Consumption	18 W
Weight	3.3 Kg
Dimensions	W 430mm x D 280mm x H 80mm
erating Temperature Range	+5°C to +35°C
perating Humidity Range	10 % to 75 %
DVD GITAL VERSATILE DISC)	Reading Speed : 1.1 m/sec. Approx. Play Time (Single Sided, Single Layer Disc) : 135 min.
CD : 5" (COMPACT DISC)	Reading Speed : 1.2 to 1.4 m/sec. Maximum Play Time : 74 min.
CD : 3½" (COMPACT DISC)	Reading Speed : 1.2 to 1.4 m/sec. Maximum Play Time : 20 min.
VCD : 5"	Reading Speed : 1.2 to 1.4 m/sec. Maximum Play Time : 74 min. (Video + Audio)
Composite Video	2 channel : 1.0 Vp-p (75 Ω load)
Component Video	Y : 1.0 Vp-p (75 Ω load) Pr : 0.70 Vp-p (75 Ω load) Pb : 0.70 Vp-p (75 Ω load)
S-VIDEO	Luminance Signal : 1.0 Vp-p (75 Ω load) Chrominance Signal : 0.286 Vp-p (75 Ω load)
2 Channel	L(1/L), R(2/R)
Frequency Response	48 kHz Sampling : 4 Hz to 22 kHz 96 kHz Sampling : 4 Hz to 44 kHz
S/N Ratio	110 dB
Dynamic Range	100 dB
Total Harmonic Distortion	0.005 %

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mensions are approximate.

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